
Subject: Re: point datasets in ENVI: some potentially useful routines and an ROI problem

Posted by [Jeff N.](#) on Mon, 07 Nov 2005 08:38:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

Maybe you should post some code here that so we can recreate the problem. The first thing that came to my mind, though, was that I would look for an indexing problem. Some sort of situation like what can happen with the where() function returning 1-d indexes for images that you often have to convert to 2D coordinates. But that's just a wild guess at this point.

Jeff

Ed Hyer wrote:

- > Hello IDL comrades,
- >
- > I've been working up a set of routines to more easily visualize and
- > analyze sample points in map imagery using ENVI. The routine library,
- > such as it is, can be found at
- > ftp://ftp.nrlmry.navy.mil/pub/receive/hyer/envi_point_pro.p
- >
- > The routines in this library perform the following functions:
- >
- > GIVEN:
- > - an georeferenced image display in ENVI
- > - a list of XY data in lat/long
- > YOU CAN:
- > - get boundaries of file area or image window area in lat/lon
- > coords;
- > - get indices of points overlapping the file area or Image window
- > area;
- > - Use direct graphics to display the points on the Image or
- > Scroll windows;
- > - Query the file for the values corresponding to the point
- > locations, and return the output directly into IDL;
- > ***: This is where the problem is-- see below.***
- > - generate an ROI of the points to manipulate using the ROI tools
- > in ENVI.
- >
- >
- > All these functions are fully scriptable, once the display is created
- > in ENVI, which I guess can also be done with ENVI_DISPLAY_BANDS.
- >
- > The above FTP address expires quickly (3 days, I think), so if someone
- > else can host this, it can remain available after this thread has died
- > down. I look forward to making some major improvements to it, above and
- > beyond the immediate problem.

>
> Now, on to the problem:
>
> When you create an ROI using ENVI_CREATE_ROI and ENVI_DEFINE_ROI, for
> some reason ENVI treats it like a stepchild. It will appear in the ROI
> list in ROI Tools, but it will not display, and will return bad numbers
> when you use ENVI_GET_ROI_DATA. The workaround I have found is to save
> and then restore the ROI, at which point it behaves correctly. But that
> workaround, well, it's undesirable, and shouldn't be necessary. Any
> ideas about how I can get ENVI to treat my home-made ROIs better?
>
> Looking for help in just the right place,
>
> Edward Hyer.
